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GEN-100D1

SEQUENCE LISTING

<110> Bougueleret, Lydie

Chumakov, Ilya

<120> Nucleic Acids and Vectors Encoding Human Defensin Polypeptide and Applications Thereof

<130> GEN-100D1

<140> US 10/045,180

<141> 2001-10-18

<150> US 09/486,580

<151> 2000-02-25

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<151> 1998-08-28

<150> FR 97/10823

<151> 1997-08-29

<160> 14

<170> PatentIn version 3.1

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 Thr Leu Thr Leu Leu Ser Ala Phe Leu Leu Val Ala Leu Gln Ala Trp  
 5 10 15

gca gag ccg ctc cag gca aga gct cat gag atg cca gcc cag aag cag 153  
 Ala Glu Pro Leu Gln Ala Arg Ala His Glu Met Pro Ala Gln Lys Gln  
 20 25 30

cct cca gca gat gac cag gat gtg gtc att tac ttt tca gga gat gac 201  
 Pro Pro Ala Asp Asp Gln Asp Val Val Ile Tyr Phe Ser Gly Asp Asp  
 35 40 45 50

agc tgc tct ctt cag gtt cca ggc tca aca aag ggc ttg atc tgc cat 249  
 Ser Cys Ser Leu Gln Val Pro Gly Ser Thr Lys Gly Leu Ile Cys His  
 55 60 65

tgc aga gta cta tac tgc att ttt gga gaa cat ctt ggt ggg acc tgc 297  
 Cys Arg Val Leu Tyr Cys Ile Phe Gly Glu His Leu Gly Gly Thr Cys  
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ttc atc ctt ggt gaa cgc tac cca atc tgc tgc tac taa gcttgacagac 346  
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Lys Gln Pro Pro Ala Asp Asp Gln Asp Val Val Ile Tyr Phe Ser Gly  
35 40 45

Asp Asp Ser Cys Ser Leu Gln Val Pro Gly Ser Thr Lys Gly Leu Ile  
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Cys His Cys Arg Val Leu Tyr Cys Ile Phe Gly Glu His Leu Gly Gly  
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Cys Ser Leu Gln Val Pro Gly Ser Thr Lys Gly Leu  
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agccagcatc	accgggtcagc	cagcatgtgc	attctccaag	attcccttta	ccaccaccgc	3900
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gggtctgctct tgcagattag tattctgccg gcgaacagaa cttcgtgttg ggaactgcct 4020
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<213> Homo sapiens

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<223> Def-4 (HNP-4) coding sequence

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att atc gcc ctg ctg gct gct att ctg ttg gta gcc ctg cag gtc cgg 105
Ile Ile Ala Leu Leu Ala Ala Ile Leu Leu Val Ala Leu Gln Val Arg
      5              10              15

gca ggc cca ctg cag gca aga ggt gat gag gct cca ggc cag gag cag 153
Ala Gly Pro Leu Gln Ala Arg Gly Asp Glu Ala Pro Gly Gln Glu Gln
      20              25              30

cgt ggg cca gaa gac cag gac ata tct att tcc ttt gca tgg gat aaa 201
Arg Gly Pro Glu Asp Gln Asp Ile Ser Ile Ser Phe Ala Trp Asp Lys
      35              40              45              50

agc tct gct ctt cag gtt tca ggc tca aca agg ggc atg gtc tgc tct 249
Ser Ser Ala Leu Gln Val Ser Gly Ser Thr Arg Gly Met Val Cys Ser
      55              60              65

tgc aga tta gta ttc tgc cgg cga aca gaa ctt cgt gtt ggg aac tgc 297
Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val Gly Asn Cys
      70              75              80

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 Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg Val Asp  
           85                          90                          95

cgttctgctg tccaagagaa tgtcatgctg ggaacgccat catcggtggt gttagcttca 405

catgcttctg cagctgagct tgcagaatag agaaaaatga gtcataatt tgctttgaga 465

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<212> PRT

<213> Homo sapiens

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<222> (1)..(97)

<223> Def-4 preproprotein sequence

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<223> Def-4 signal peptide

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<223> Def-4 mature peptide

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Met Arg Ile Ile Ala Leu Leu Ala Ala Ile Leu Leu Val Ala Leu Gln  
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Val Arg Ala Gly Pro Leu Gln Ala Arg Gly Asp Glu Ala Pro Gly Gln  
20 25 30

Glu Gln Arg Gly Pro Glu Asp Gln Asp Ile Ser Ile Ser Phe Ala Trp  
35 40 45

Asp Lys Ser Ser Ala Leu Gln Val Ser Gly Ser Thr Arg Gly Met Val  
50 55 60

Cys Ser Cys Arg Leu Val Phe Cys Arg Arg Thr Glu Leu Arg Val Gly  
65 70 75 80

Asn Cys Leu Ile Gly Gly Val Ser Phe Thr Tyr Cys Cys Thr Arg Val  
85 90 95

Asp

<210> 10

<211> 94

<212> PRT

<213> Homo sapiens

<220>

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<223> Def-5 preproprotein sequence

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<222> (20)..(63)

<223> Def-5 propeptide

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<222> (64)..(94)

<223> Def-5 mature peptide

<400> 10

Met Arg Thr Ile Ala Ile Leu Ala Ala Ile Leu Leu Val Ala Leu Gln  
1 5 10 15

Ala Gln Ala Glu Ser Leu Gln Glu Arg Ala Asp Glu Ala Thr Thr Gln  
20 25 30

Lys Gln Ser Gly Glu Asp Asn Gln Asp Leu Ala Ile Ser Phe Ala Gly  
35 40 45

Asn Gly Leu Ser Ala Leu Arg Thr Ser Gly Ser Gln Ala Arg Ala Thr  
50 55 60

Cys Tyr Cys Arg Thr Gly Arg Cys Ala Thr Arg Glu Ser Leu Ser Gly  
65 70 75 80

Val Cys Glu Ile Ser Gly Arg Leu Tyr Arg Leu Cys Cys Arg  
85 90

<210> 11

<211> 100

<212> PRT

<213> Homo sapiens

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<222> (1) .. (100)

<223> Def-6 preproprotein sequence

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<221> SIGNAL

<222> (1) .. (19)

<223> Def-6 signal peptide

<220>

<221> PROPEP

<222> (20) .. (70)

<223> Def-6 propeptide

<220>

<221> PEPTIDE

<222> (71) .. (100)

<223> Def-6 mature peptide

<400> 11

Met Arg Thr Leu Thr Ile Leu Thr Ala Val Leu Leu Val Ala Leu Gln  
1 5 10 15

Ala Lys Ala Glu Pro Leu Gln Ala Glu Asp Asp Pro Leu Gln Ala Lys  
20 25 30

Ala Tyr Glu Ala Asp Ala Gln Glu Gln Arg Gly Ala Asn Asp Gln Asp  
35 40 45

Phe Ala Val Ser Phe Ala Glu Asp Ala Ser Ser Ser Leu Arg Ala Leu  
50 55 60

Gly Ser Thr Arg Ala Phe Thr Cys His Cys Arg Arg Ser Cys Tyr Ser  
65 70 75 80

Thr Glu Tyr Ser Tyr Gly Thr Cys Thr Val Met Gly Ile Asn His Arg  
85 90 95

Phe Cys Cys Leu  
100

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<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(94)

<223> Def-1 preproprotein sequence

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<221> SIGNAL

<222> (1)..(19)

<223> Def-1 signal peptide

<220>

<221> PROPEP

<222> (20)..(64)

<223> Def-1 propeptide

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<221> PEPTIDE

<222> (65)..(94)

<223> Def-1 mature peptide

<400> 12

Met Arg Thr Leu Ala Ile Leu Ala Ala Ile Leu Leu Val Ala Leu Gln  
1 5 10 15

Ala Gln Ala Glu Pro Leu Gln Ala Arg Ala Asp Glu Val Ala Ala Ala  
20 25 30

Pro Glu Gln Ile Ala Ala Asp Ile Pro Glu Val Val Val Ser Leu Ala  
35 40 45

Trp Asp Glu Ser Leu Ala Pro Lys His Pro Gly Ser Arg Lys Asn Met  
50 55 60

Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr  
65 70 75 80

Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys  
85 90

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<212> DNA

<213> Artificial

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<223> Oligonucleotide PU

<400> 13

tgtaaaacga cggccagt

18

<210> 14

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<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide RP

<400> 14

caggaaacag ctatgacc

18